POPULARIZING MOTOR CARS IN SOUTH AMERICA

South America Rapidly Taking to Motor Vehicles

Marked Development in the Use of Commercial and Passenger Cars and an Increased Interest Taken in the Improvement of Roads, According to William A. Reid.

tion and to cultivate is brought out in an article by William A. Reid in the May number of "The Bulletin of the Pan-American Union," Washington, D. C. Even in those countries where good roads are acared the automobile is becoming a necessity for industrial purposes, for in many places it is beginning to demonstrate its value in the transportation of freight and passengers where railroads are impracticable or too expensive to build. In this connection Mr. Reid writers:

"In the barren nitrate section of Chilli, where the cart and mule have long done faithful service, one finds to day a number of automobiles. During a recent journey through the nitrate fields several machines were placed at the writer's disposal, and they did excellent service over some of the most trying trails to be encountered in any country. Furthermore, it was learned that eight motor trucks are to be given a trial in the handling of nitrate. The two-mule team and cart in general use at present cost about \$700. Small locomotives, costing several thousand dollars, may eventually be replaced by the motor truck if it proves its practical utility. The truck, costing from \$2,000 to \$3,000, may prove itself more economical than the old system; the clearing and building of a cheap road for the truck will certainly be less expensive than the laying of railway tracks for the locomotives and dump cars.

"A few months ago, while the writer was in Paraguay, the first motor truck is good of the world's most direction to deep the countries topographically, has been using back animals. Molecular the countries topographically, has been using the commercial automobile for several advantage. Railways were not being built with the carbital pears to great advantage. Railways were not being built with the containty that the country's trade demanded and trucks were introduced on a regular run from Potosi to Sucre, a cuitivity that the country's trade demanded, and trucks were introduced on a regular run from Potosi to Sucre, a cuitivity that the country's trade d

tracks for the locometives and dump cars.

"A few menths ago, while the writer was in Paraguay, the first motor truck ever seen in that country arrived in Asuncion. A considerable number of pleasure cars, especially those of cheaper grades, are in use in the Paraguayan capital, but the arrival of the monster truck created a new interest, and hundreds of citizens watched the American agent demonstrate the possibilities of his machine. Even the President of the republic and several members of his machine are willing to undergo the Cabinet were willing to undergo the sections of highway that could be retained and motor vehicles multiplying rapidly. In 1913 Argentina alone imported 5,115 automobiles."

That the motor car is finding its way into the remote sections of South America and that the great southern continent will eventually offer an immense territory for the automobile manufacturer to take into consideration and to cultivate is brought out in the south of the south

42 ELECTRICS TAKE PART IN LOCAL RUN

Mrs. W. H. Jacobus Wins Secret

Irs. W. H. Jacobus Wins Secret
Time Prize with Baker Car.

The Prize with Baker Car.

The Baker Car.

Thougham, in which were her daughter and a friend, over the course in 1 hour and 24 minutes, the secret time being 1 hour 23 minutes and 30 seconds. At the Simon Clab. Time Prize with Baker Car.

With forty-two cars competing, the socialibility run and secret time contest for electric pleasure automobiles, held under the auspices of the New York Electric Vehicle Association, on May 10 were represented by the seconds of the New York Electric Vehicle Association, on May 10 were represented by the seconds of the New York Electric Vehicle Association, on May 10 were represented by the seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the seconds. At the Siwanoy Club Mrs. Seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the seconds of the New York Electric Vehicle Association, on the Seconds of the New York Electric Vehicle Association, on the Seconds of the New York Electric Vehicle Association, on the Second



Some of the entries in the recent electric sociability run.

who participated a decidedly enjoyable and successful event. The day was ideal for the run, which was from the electric garage at Central Park West and Sixty-second Street to the Siwanoy Club, in Bronxville, a distance of nineteen miles.

Only ladies were entered in the secret time contest, which consisted of an attempt on the part of the contestants to cover the course in, or as nearly as possible in, a previously de-

NEWS AND NOTES

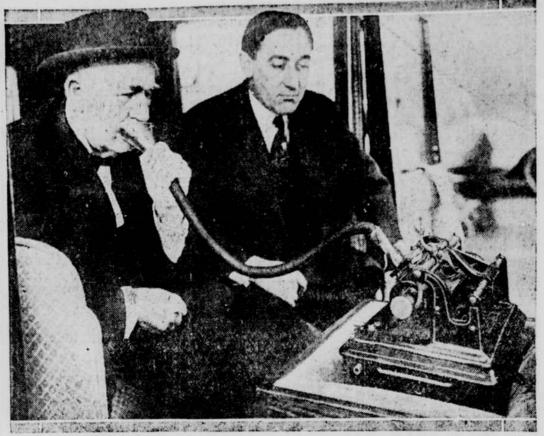
Manufacture of a four-cylinder car to sell for \$395 is to be undertaken in Long Island City by the Emerson Motors Company, Inc., which has opened offices at 47 West Thirty-fourth street. Pending the installation of the necessary equipment at the factory space the company has already acspace the company has already acquired, experimental work is being carried on in a local garage and machine shop. Several cars have already been made and arrangemen s are being made to turn out about 500 this year. R. C. Hupp, lately of the Monarch Motor Car Company, is vice-president and engineer of the new company, which takes its name from Col. Willis George Emerson, who is prominent in its affairs. T. A. Campbell, formerly treasurer and general manager of the Imperial Automobile Company, is president, and mobile Company, is president, and George N. Campbell, formerly secre-tary and factory manager of the im-perial company, is treasurer of the new

Don C. McCord has become general manager of the Bankers Commercial Corporation, 14 Wall street, having re-signed his position as manager of the Harris Brothers Co., Detroit, This corporation handles commercial paper, particularly that issued for the purpose of financing partial payments, methods of buying and selling automobiles. Mr. McCord is one of the pioneers in the industry and in 1912 was a director and vice-president of the Flanders Manufecturing Company. facturing Company.

The third annual outing of the Fire-stone Tire & Rubber Company held at Baber's Inn, Fort Totten, L. I., on Sat-urday, May 20, was a complete success.



A BOON FOR THE BUSY BUSINESS MAN. '



Thomas A. Edison, the famous inventor, dictating into a phonograph installed in an Owen Magnetic car. silence and absence of vibration in this car make it possible to operate the highly sensitive Edison phonograph while the car is in motion. At Mr. Edison's side is R. M. Owen, who is responsible for the perfection of this wonderful development of the automobile industry.

A Four-Cylinder 32 H. P. Vehicle with

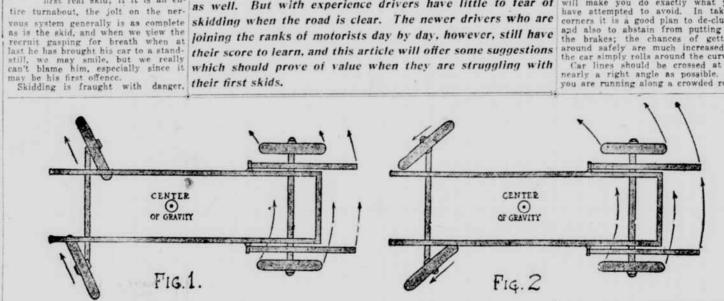
tended the introduction of the 1916 pleasure car model, the Pullman Motor made formal announcement of a Pullman light delivery car embodying many of the features of the touring car, combined with all of the latest improvements to be found in light

Interesting Y. M. C. A. Booklet.

Under the title of "The Automobile industry—What It Offers—How to interest the West Side Y. M. C. A. Automobile School has issued an interesting booklet containing in addition to extracts from talks delivered at the opening of their various courses, considerable information relative to motor laws. "From Molten Steel to Automobile," moving pictures illustrating the production of Maxwell cars, will be shown free of charge in the auditorium on Thursday night, June 1.

The Science of Stopping Swerving, Sliding Skids By ALFRED H. BARTSCH.

NE of the worst scares a new SKIDDING has provided many a moment's suspense for the and keep to the right. If you keep on the inside of the corner, the transverse inclination of the road may driver receives is during his first real skid; if it is an entire turnabout, the jolt on the neras well. But with experience drivers have little to fear of skidding when the road is clear. The newer drivers who are joining the ranks of motorists day by day, however, still have their score to learn, and this article will offer some suggestions which should prove of value when they are struggling with their first skids.



those who make light of it to the contrary. The slipping or skidding itself is not dangerous, but if the car strikes anything, then these is the possibility of serious damage to the car, as well as to the obstruction hit. If a sliding movement occurs between two contracting bodies, the one that is in motion may be moved at an angle to its path or direction of movement. Based on this fact, then, skidding can be corrected if the driver will but use his head, while, on the other hand, skidding can be prevented if serious the skid. In Figure 2 the front wheels are seeming—

rection of the skid the slide will cease by directed toward the objective point of the skid, but here you will quickly see that the front and back of the car the skid. See that the front and back of the car the skid to swing in opposite directions around the centre of gravity. The restend to swing in opposite directions around the centre of gravity. The restend to swing in opposite directions around the centre of gravity. The restend to swing in opposite directions around the centre of gravity. The restend to swing in opposite directions around the centre of gravity. The restend to swing in opposite directions around the centre of gravity. The restend to swing in opposite directions around the centre of gravity. The restend to swing in opposite directions around the centre of gravity. The restend to swing in opposite directions around the centre of gravity. The restend to swing in opposite directions around the centre of gravity. The restend to swing in opposite directions around the centre of gravity. The restend to swing in opposite directions around the centre of gravity. The restend to swing in opposite directions around the centre of gravity. The restend to swing in opposite directions around the centre of gravity. The restend to swing in opposite directions around the centre of gravity. The restend to swing in opposite directions around the centre of gravity. The restend to swing in opposite directions around the centre of gravity. The res

again the thinking cap is used, in tead of the fool's cap.

If by chance you are forced to drive

If by chance you are forced to drive on a slippery pavement, care should be taken to avoid any sudden varia-tions from the true forward rolling motion of the wheels on the road. If the engine is suddenly accelerated the

the engine is suddenly accelerated the driving wheels may not secure proper traction and will spin around instead of rolling forward.

Again, if the brakes be suddenly applied, the road wheels may rotate slower than the corresponding progress of the car in fact, they may even cease to rotate at all, merely sliding along. Further, in passing over an uneven road the car may bounce, so that the wheels at times are actually out of contact with the road surface. Under any of these conditions a very

are wet.

Probably the fact that cars are driven from the back and steered by the front contributes to their tendency to slip, as the rear part has a disposition to push around the front, on one side or the other. Of course, the greatest tendency to slessification to push around the front, as the centrifugal force then exerts as the centrifugal force then exerts very great lateral pressure upon the vehicle.

To a level with the normal bore. Be guided by advice from a practical mechanic who has inspected the cylinders and do not forget to have the lubrication of a certain car is painted black, and am puzzled.

My 1915 car has been missing badly at high speeds. I cannot trace where vehicle.

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Speaking generally, the wheels, springs, frame and front axle are referred to as running gear. This extendence where the fault, if any, lies as everything has pression is also used to denote the desired dimension, cut the end off square and grind or file to a sharp the running gear of a car? I am informed that this portion of a certain car is painted black, and am puzzled.

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Speaking from the same dismeter of the desired dimension, cut the end off in the square and

vehicle.

To avoid sideslip you may take cetain precautions. Not to take the carout when the roads are slippery would not be wise ndvice, because it may not always be possible to follow that advice, and, further, though the roads may find that the sprinkling cart has made them quite the reverse over more or less restricted sections. But, when a slippery stretch is encountered, proceed slowly, especially in making turns. If the car begins to slip, keep your wits about you and begin to steer in the direction of the slip. This may be exactly contrary to your inclination, but it will tend to restore the grip of the wheels on the road, and, as soon shire exactly is attained you may be.

of non-skidding devices, and, lacking other devices, never be without a set. A fairly effective device may be improvised for temporary use by winding rope around the tire and felloes in spiral form. The ends of the rope must be carefully secured and examined frequently, and renewed as required. In any case, it is best to fit all four wheels with non-skidding devices. If only two are employed they should be arranged on one front and one rear wheel, but on opposite sides of the car, this arrangement being best in such case.

pany, Milltown, N. J. This fifty-sixpage book, which has been greatly improved, enlarged and profusely illusproved, changed and protesty flusplug with a new one several times, but
trated and printed in three colors, contime result is always the same.—Bronx.

In all probability the trouble is
traceable to faulty piston rings, which
admit lubricant to the combustion
chamber. Examine these and also inspect the piston which may be a conspect the piston which was the same.—Bronx
trated and printed in three colors, contains considerable information which
should prove of value to motorigts.

Froper care of tubes, improper repairing, evils of greased tubes, proper use
of brakes, bad effects of bent axles,
the proved the piston rings are proved.

The proved the piston rings are proved.

The proved the piston rings are proved to the piston rings are proved.

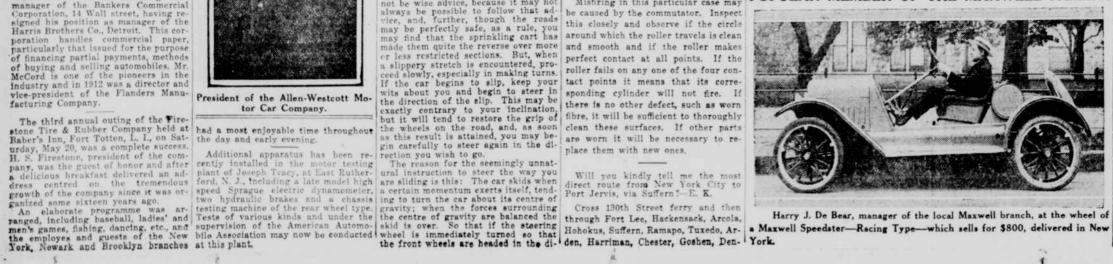
The proved the piston rings are proved to the piston rings are proved ne of the subjects treated

Cutting Circular Washers.

It is not an easy matter to cut a clean, circular hole when making gaston. If both piston and cylinder are kets, particularly when the material is in good shape the fitting of new rings asbestos. If the whole be of standard size, obtain a short piece of steel tub-

may be made by utilizing equal parts of linseed or olive oil and vinegar. Remove all dust from the surfaces and apply the polish with a soft rag. Rub lightly until dry.

POPULAR MEMBER OF THE MAXWELL FAMILY.



PULLMAN DELIVERY CAR H. M. ROWE NEW FROM 'FRISCO TO

pleasure car model, the Pullman Motor Car Company, York, Penn., has just Marylander Heads the Na- Hammond, in an Empire, tional Body, Which Now Has 100,000 Members.

mer presidents, as usual, Robert F. Hooper and Laurens Enos, were in attendance at the annual meeting, which took place in Washington. A high speed morning session, a good roads innings in the afternoon and a banquet in the evening made one very complete day for the 150-odd directors who came from a score of states.

Unusual Features.

Encouraged by the success which at-

Makes the Trip, with Ten Hours' Sleep.

day for the 150-odd directors who came from a score of states.

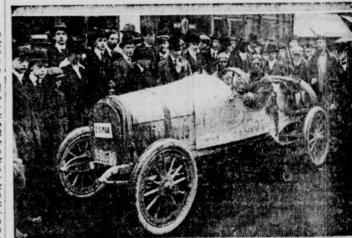
The reports of Chairmen Diehl, Kennerdeli, Lee and Joyce were replete with evidence of things accomplished and presaged greater things for the future. Treasurer H. A. Bonnell presented an encouraging financial statement, and Secretary John N. Brooks reported the present grand membership total in excess of the 100,000 mark.

To the problem, and, despite the danger, Hammond says he entered the sheds and bumped along to a lower level, with one wheel between the edge of the ties. With this stretch back of him it was comparatively easy going, and Ogden, Utah, 917 miles from the problem, and, despite the for the problem, and, despite the same for the problem, and, despite the same for the problem, and, despite the for the problem, and, despite the same for the problem, and despite the same for the problem, and, despite the same for the problem, and despite the same for the problem, and despite the problem, and despi

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Stedman Bent, of Pennsylvania, served as chairman of the committee on nominations, which unanimously reported Dr. Rowe for the presidency, and added to the list of vice-presidents David Jameson, of Pennsylvania; C. C. Janes, of Ohio, and Francisco, was reached in thirty-six days the providence of the list of vice-presidents David Jameson, of Pennsylvania; C. C. Janes, of Ohio, and Francisco Belvin, of Virus of Minnesotts; Preston Belvin, of Virus ginia, and P. J. Walker, of California, were the holdovers. H. A. Bonnell, treasurer, and John N. Brooks, secretary, were continued in the positions which they have held so adequately for many terms. A. G. Batchelder was while he asked to be relieved of preparedness, the A. A. A has been much concerned, President John A. Wilson having assumed the burden of its participation. His report gave evidence of the acope of the proposition, and, while he asked to be relieved of the task, it was the unanimous opinion of the meeting that he was the one who should be kept on the job, which his successor insisted should be the case.

Several additions were made to the membership list, these being the Automobile Association, Pensacola, Fla., and the Florida East Coast Automobile Association, Pensacola, Fla., and the Florida East Coast Automobile Association, Pensacola, Fla., and the Florida East Coast Automobile Association, Pensacola, Fla., and the Florida East Coast Automobile Association, Pensacola, Fla., and the Florida East Coast Automobile Association, Pensacola, Fla., and the Florida East Coast Automobile Association, Pensacola, Fla., and the Florida East Coast Automobile Association, Pensacola, Fla., and the Florida East Coast Automobile Association, Pensacola, Fla., and the Florida East Coast Automobile Association, Pensacola, Fla., and the Florida East Coast Automobile Association, of Norfolk, Va., asked that its membership be changed from the "enrolment" to the "complete" plan.



Bobby Hammond and his Empire car being ferried across the Hudson at the end of the record-breaking run from San Francisco.



TUST as Scripps-Booth is distinct J from other motor cars in appearance, so in construction no parallel can be formed by its price.

Designed to be a light companion to the world's best motor cars, Scripps-Booth would have utterly failed in its object, had not its mechanism and materials been identical with those superlative large cars to which its owners are accustomed.

Scripps-Booth

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4-cylinder Roadster

8-cylinder \$1175

LEW H. ALLEN.





President of the Allen-Westcott Motor Car Company.

Sunday Tribune Motor Service Department

Conducted by E. A. STEPHENS.

I find that two of the cylinders of my motor are badly scratched on the inner walls. Can anything be done to remedy this or do you think the fitting of new piston rings will counteract the trouble?—Tom. W.

ton, Slate Hill, Bushville, Tristate to Port Jervis. The distance by this route is approximately eighty-nine miles.

Michelin's Tire Bock.

The third edition of the "Michelin Tire Users' Handbook" is now ready for distribution by the Michelin Tire Comditional Company.

out of centact with the read surface. Under any of these conditions a very slight disturbing force will be enough to deflect the car from its straight course and cause sideslip.

So long as the road is hard and dry the friction between the tires and road surface will be ample to prevent skidding; but if the hard, smooth surface be covered with thin mud, or if a comparatively soft surface be covered with think mud, the car will not obtain a sufficiently firm grip on the road and may begin to slide at any moment. The same thing may, or will, happen on roads that are deep in dust.

Another and very dangerous cause of sideslip is found when encountering the steel rails of the streetcar lines. The tracks generally project above the general level, or sometimes are depressed below, in either case forming ridges which tend to prevent the car travelling at an angle thereto. The disturbing effect is greatest when the rails are wet.

Probably the fact that cars are driven

My 1915 car has been missing badly at high speeds. I cannot trace where the fault, if any, lies as everything has been recently overhauled and I am not sufficiently expert to judge where the trouble originates.—M. L. C.

parts in a wagon or carriage.